

Message Text

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PAGE 01 STATE 127549
ORIGIN EB-07

INFO OCT-01 EUR-12 ISO-00 DODE-00 NSAE-00 TRSE-00
ERDA-05 CIAE-00 COME-00 USIE-00 SSO-00 ACDA-07
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APPROVED BY EB/ITP/EWT - RPRACHT
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-----022304Z 044650 /70

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FM SECSTATE WASHDC
TO AMEMBASSY PARIS IMMEDIATE

C O N F I D E N T I A L STATE 127549

USOECD/EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM, PL, US

SUBJECT: US POWER SEMICONDUCTOR MANUFACTURING FACILITY TO
POLAND--IL 1355

REF: A) PARIS 15917, B) COCOM DOC (77) 309

FOLLOWING ARE ANSWERS TO GERMAN DEL QUESTIONS REPORTED IN
REF A:

A. ISSUANCE OF A US EXPORT LICENSE FOR THIS TRANSACTION
IS CONTINGENT UPON WRITTEN AGREEMENT BY TEWA THAT AUTHORIZED
RCA REPRESENTATIVES WILL BE ALLOWED IN RESIDENCE AT THE
EQUIPMENT SITE FOR A TWO YEAR PERIOD AFTER EQUIPMENT
INSTALLATION AND FOR THE FOLLOWING 2 YEARS, RCA WILL BE
ALLOWED TO VISIT THE SITE FOR INSPECTION EVERY THREE MONTHS.
REPORTS WILL BE SUBMITTED TO THE US GOVERNMENT AS TO
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EQUIPMENT USE AND IF DIVERSION IS DETECTED, SUCH WILL BE
REPORTED TO THE US GOVERNMENT.

THIS EXPORT IS PART OF A LARGER TRANSACTION THAT RCA HAS
CONCLUDED WITH THE POLISH ELECTRONICS INDUSTRY UNION
(UNITRA) FOR THE MANUFACTURE IN POLAND, WITH US TECHNICAL
ASSISTANCE, OF FINISHED COLOR TELEVISION RECEIVERS.

TECHNICAL SUPPORT INCLUDES CONTINUING KNOWHOW TRANSFER FOR MANUFACTURE OF COLOR PICTURE TUBES AND UPDATING OF COLOR RECEIVER DESIGN. THE VOLUMN REQUIREMENTS FOR THE SUBJECT SEMICONDUCTOR DEVICES IN THE OVERALL TV RECEIVER PRODUCTION PRECLUDES THE USE OF THE EXPORTED EQUIPMENT FOR OTHER USES. PLEASE NOTE ALSO THAT THE EQUIPMENT IS IN GENERAL NOT CAPABLE FOR PROCESSING OF INTEGRATED CIRCUITS, BUT RATHER LIMITED TO DISCRETE POWER DEVICE PROCESSING. US DETECTION OF NON APPROVED EQUIPMENT USES WOULD NECESSITATE REMOVAL OF US/POLISH TECHNICAL AND SPARE PARTS ASSISTANCE THEREBY DISABLING THE ENTIRE TELEVISION FABRICATION PROJECT.

B. RCA HAS A US LICENSE FOR THE EXPORT OF TECHNICAL DATA FOR THE MANUFACTURE OF 2N6107, 2N6202 AND 2N6292 TRANSISTORS AND THE TYPE S3900 THYRISTOR (COCOM DOCS (76) 752 AND 1207). RCA WILL DELIVER THIS DATA TO TEWA WITH EQUIPMENT TRANSACTION. RCA HAS ASSURED THE US GOVERNMENT THAT NO TECHNICAL DATA OTHER THAN THAT PERTAINING TO THE ABOVE DEVICES WILL BE DELIVERED AND THAT POLISH PRODUCTION WILL BE MONITORED BY THE US TECHNICIAN IN RESIDENCE AS NOTED ABOVE.

C. THE 3-TUBE DIFFUSION FURNACES SUPPLIED WILL BE 1300 DEGREES C RESISTANCE HEATED UNITS HAVING CONTROL ZONES OF 20-25 INCHES IN LENGTH AND TEMPERATURE VARIATIONS OF PLUS OR MINUS 2 DEGREES C. THESE UNITS CAN ACCEPT WAFERS UP TO 3-INCH DIAMETERS.

THE NUMBER OF DIFFUSION FURNACES REQUIRED FOR THE
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PROPOSED FACILITY WERE DETERMINED AS A FUNCTION OF THE DESIRED PROCESS RELATIVE TO THE DOPANTS AND TEMPERATURES USED FOR THE SPECIFIC DEVICES BEING MANUFACTURED. THE SCHEDULED MACHINE RATES ARE LISTED FOR EACH FURNACE TUBE AS FOLLOWS:

3 - TRIPLE STACK TUBE FURNACE -- BORON ROOM

TUBE	MACHINE RATE-WAFERS/HOUR
1 OXIDATION TUBE	67
1 BORON DEPOSITION TUBE	16.5
1 THERMAL OXIDATION TUBE	67
1 BORON DIFFUSION TUBE	50
1 STEAM LEACH TUBE	50
1 ANNEAL TUBE	25
1 DIBORANE DRIVE-IN TUBE	400
1 STEAM LEACH TUBE	2000
1 BORON DIFFUSION TUBE	100

3 - TRIPLE STACK TUBE FURNACE -- PHOSPHORUS ROOM

TUBE	MACHINE RATE-WAFERS/HOUR
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1 SIMO DIFFUSION TUBE	50
1 THERMAL OXIDATION TUBE	67
1 PHOS. DEPOSITION TUBE	250
1 PHOS. DIFFUSION TUBE	33.3
1 RE-OXIDATION TUBE	33.3
2 PHOS. DEPOSITION TUBES	400
2 OXIDATION TUBES	40

1 - TRIPLE STACK TUBE FURNACE -- PELLET AREA

TUBE	MACHINE RATE-WAFER/HOUR
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1 GOLD DIFFUSION TUBE	133
2 NICKEL SINTER TUBES	300

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: POLICIES, IL 1355, STRATEGIC TRADE CONTROLS, EXPORT LICENSES, SEMICONDUCTOR DEVICES
Control Number: n/a
Copy: SINGLE
Sent Date: 02-Jun-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 22 May 2009
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
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Document Source: CORE
Document Unique ID: 00
Drafter: RGAREL/AMINTHORNE:JAS
Enclosure: n/a
Executive Order: X1
Errors: N/A
Expiration:
Film Number: D770197-0499
Format: TEL
From: STATE
Handling Restrictions: n/a
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Legacy Key: link1977/newtext/t19770696/aaaadgnp.tel
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Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
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Office: ORIGIN EB
Original Classification: CONFIDENTIAL
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Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
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Previous Classification: CONFIDENTIAL
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Reference: 77 PARIS 15917
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
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Review Exemptions: n/a
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Review Release Date: n/a
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Review Withdrawn Fields: n/a
SAS ID: 2299859
Secure: OPEN
Status: NATIVE
Subject: US POWER SEMICONDUCTOR MANUFACTURING FACILITY TO POLAND--IL 1355
TAGS: ESTC, PL, US, COCOM
To: PARIS USOECD
Type: TE
vdkgvwkey: odb://SAS/SAS.dbo.SAS_Docs/e4f64086-c288-dd11-92da-001cc4696bcc
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